North Carolina Menhaden Fishery Management



Marine Fisheries Study Committee Feb. 2, 2012



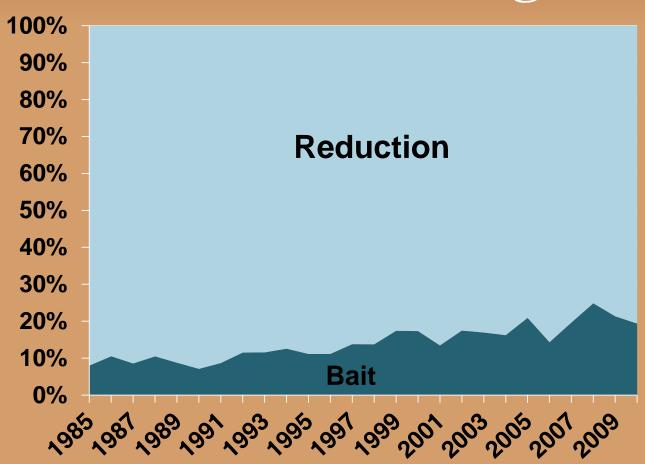




★ Menhaden factory locations

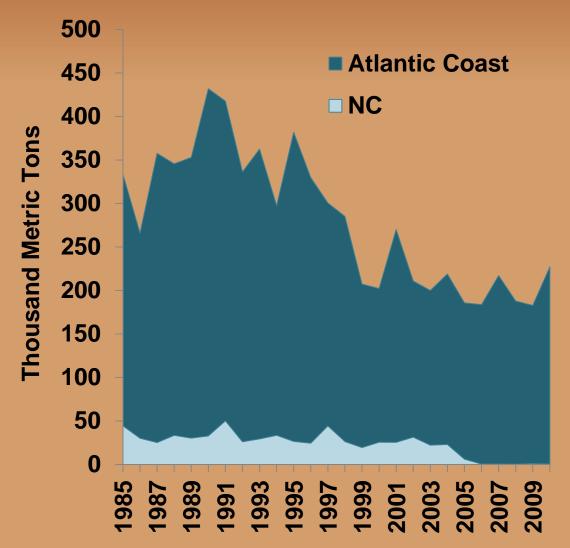


Coast-wide Reduction and Bait Landings





N.C. and Coast-wide Landings





N.C. Commercial Menhaden Landings 2006 - 2010

	Average Annual Landings (pounds)	Percent of Total Landings
Gillnet	466,009	37.8%
Flynet	397,364	32.2%
Pound Net	203,495	16.5%
Other	166,314	13.5%
State Total	1,233,128	100%
Coast-wide Total	440,276,988	(0.3%*)

^{*}Denotes average state landings as a percent of average coast-wide landings for 2006 to 2010



N.C. Commercial Menhaden/Other Landings (Pounds)

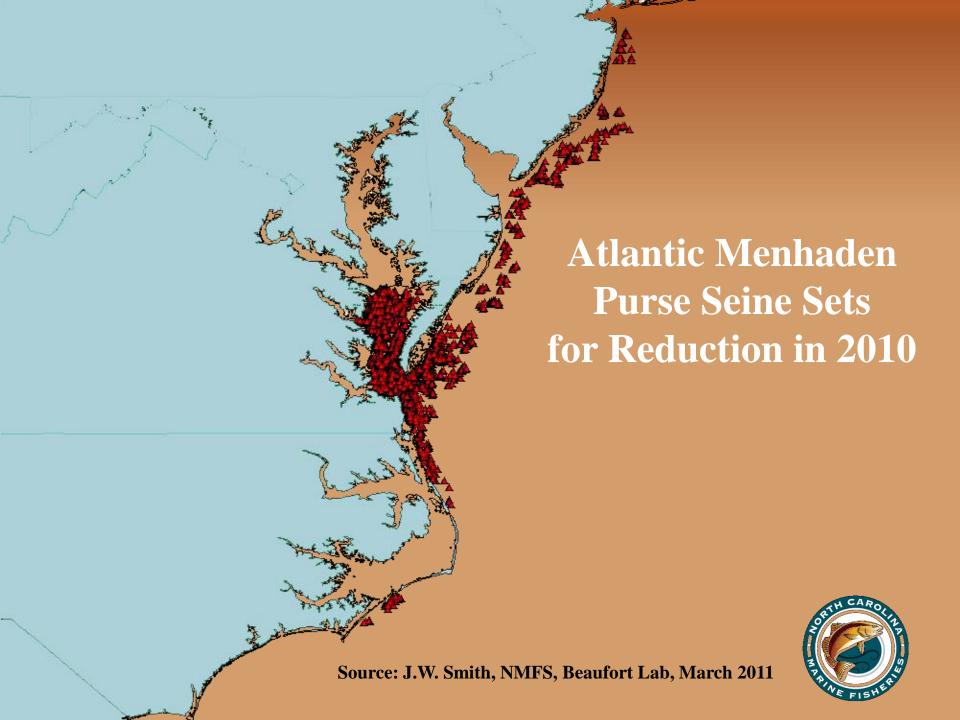
Year	Menhaden	All Other Species
2006	962,648	67,780,699
2007	1,134,167	61,740,812
2008	645,231	70,554,957
2009	2,124,733	66,836,173
2010	1,299,130	70,697,970



N.C. Commercial Menhaden/Other Value (Ex-vessel)

Year	Menhaden	All Other Species
2006	\$147,779	\$69,937,740
2007	\$139,178	\$82,145,447
2008	\$70,339	\$86,739,422
2009	\$229,648	\$76,950,212
2010	\$111,552	\$79,713,301





N.C. Recreational Importance

- Used for bait in many recreational fisheries
- Mostly captured by cast net
- Unknown impact on stock



N.C. Commercial Importance

- Source of revenue and income
- Landings are primarily for bait use
- Commercial blue crab fishery heavily relies on menhaden for bait



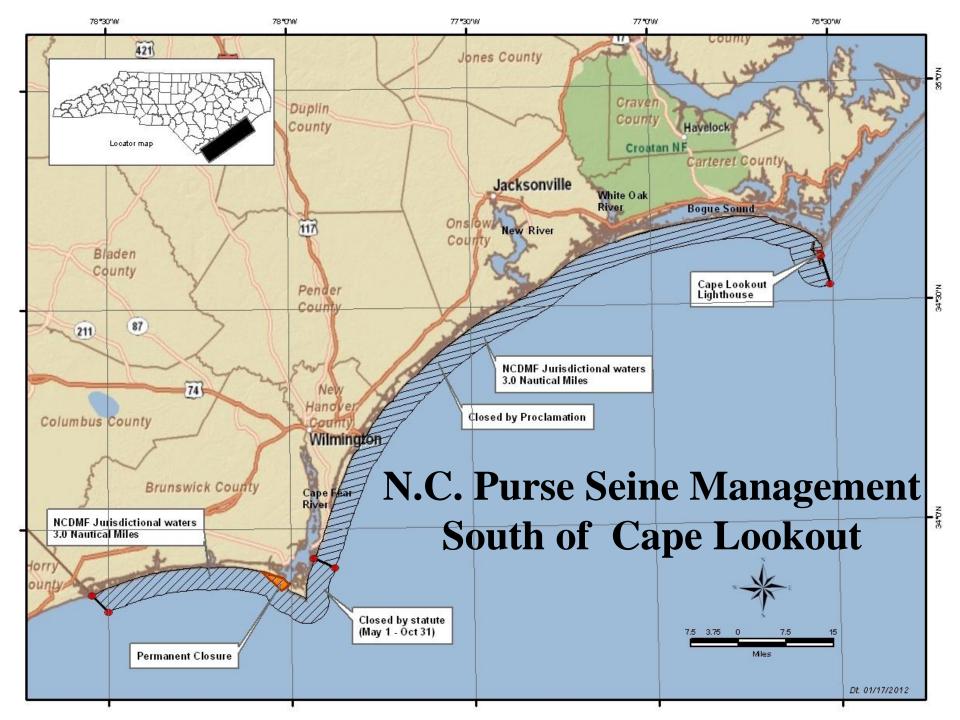
N.C. Commercial Economic Information 2010

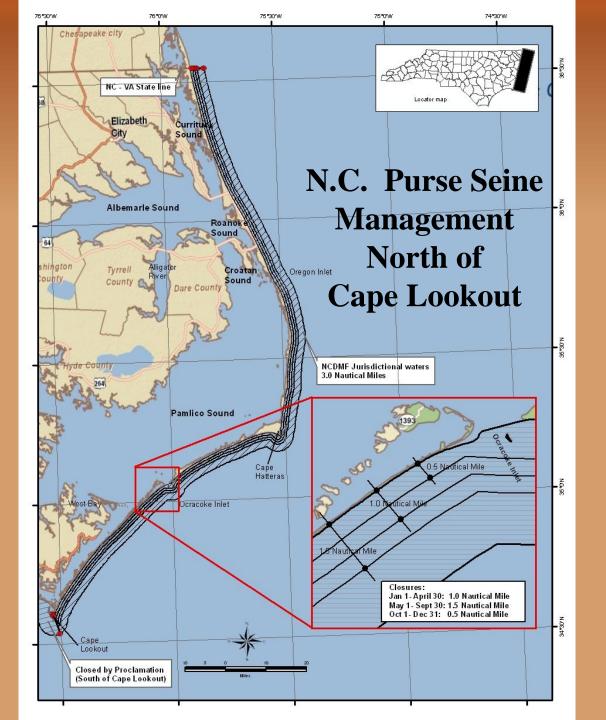
- 258 commercial fishermen reported landing menhaden in 1,629 trips
- Commercial landings totaled 1.3 million pounds of menhaden worth \$111,552
- Blue crab fishermen used an estimated 11.2 million pounds of menhaden as bait
- Commercial fishermen spent approximately \$3 million on menhaden for use as crab bait

Past State Issues

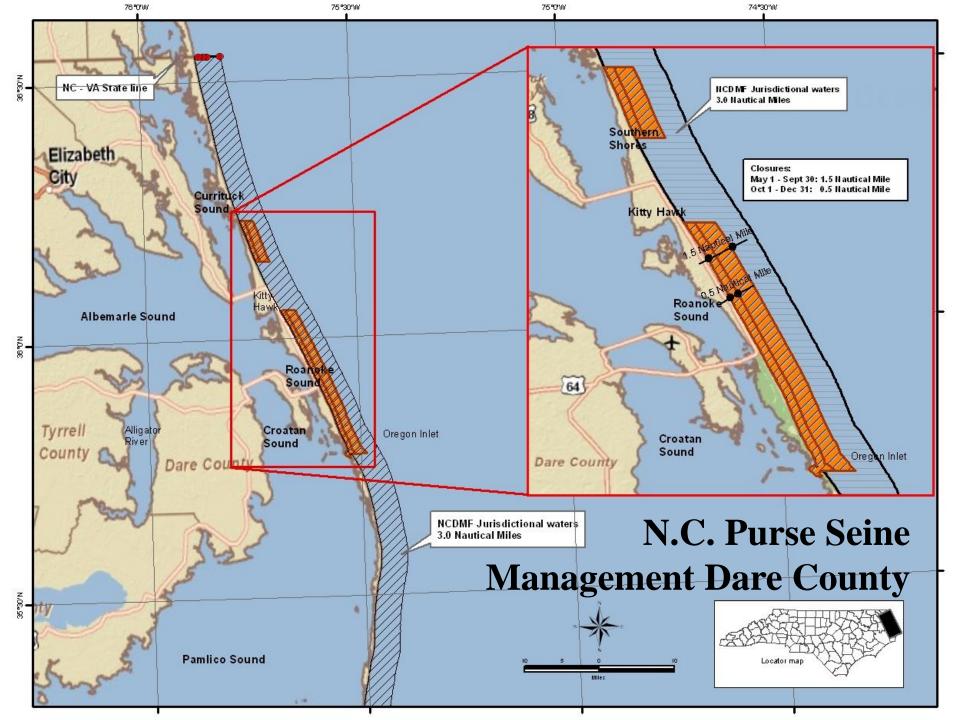
- In 2004, a Louisiana menhaden vessel was cited for illegally netting and filleting striped bass off Shackleford Banks
- In 2009, a purse seine vessel's nets split, releasing 150,000 pounds of dead fish, including red drum
- Various other reports of net splits that spill fish on the beach
- Conflict with recreational anglers
- Complaints from local governments











Coast-wide Management

- Managed by Atlantic States Marine Fisheries Commission (ASMFC)
- Reduction fishery restricted by a Chesapeake Bay quota
- No restrictions in Atlantic Ocean



Recent ASMFC Actions

- Revised 2010 benchmark stock assessment found Atlantic menhaden is not overfished, but overfishing is occurring
 - Overfished: The population is too low
 - Overfishing: The rate of removal is too high
- Established new fishing mortality threshold and target levels that recognize ecosystem function and importance of menhaden
- Needed harvest reductions/management measures will be identified and taken to public hearing in 2012

Potential Impacts of ASMFC Measures

- Reduction fishery
 - Omega Protein
- Bait fishery
 - Commercial fishery
 - Crab fishery
 - Recreational fishery



Questions?

